



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries > Clinton > Quarterly Performance Indicators

Clinton – Quarterly Performance Indicators

4Q/2017 Performance Indicators

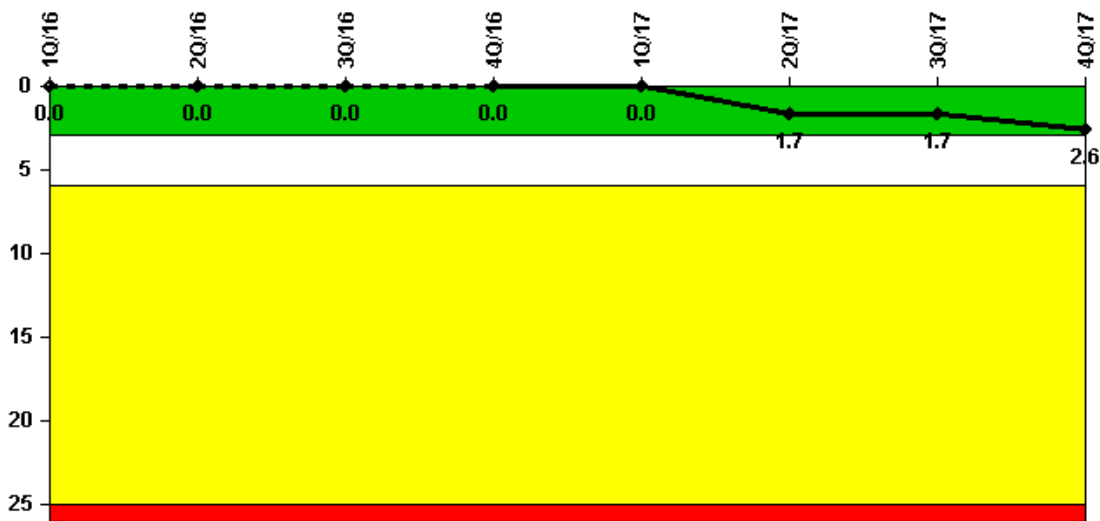
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

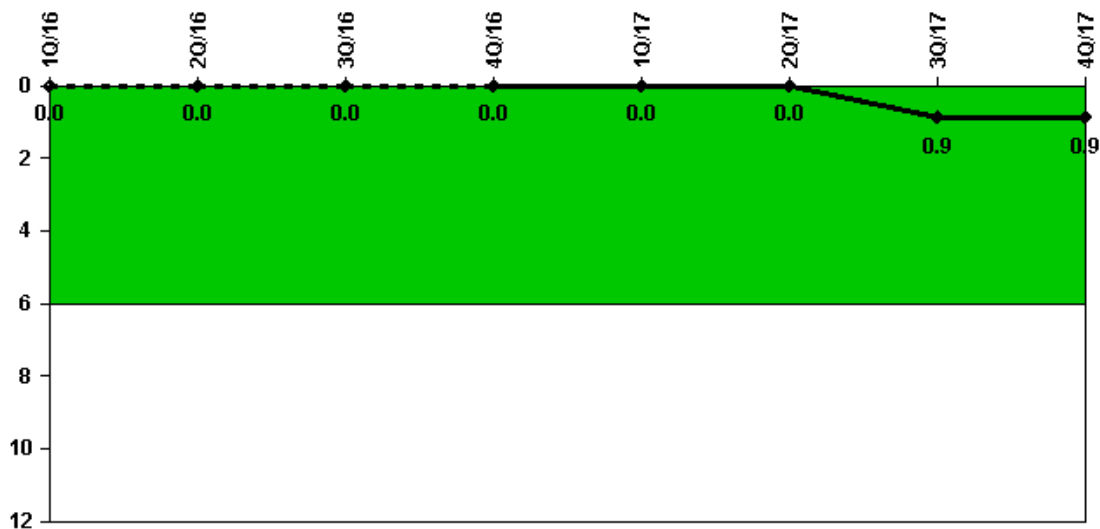
Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	0	0	0	2.0	0	1.0
Critical hours	2183.0	1937.9	2208.0	2209.0	2159.0	1600.1	2208.0	2084.1

Indicator value	0	0	0	0	0	1.7	1.7	2.6
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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

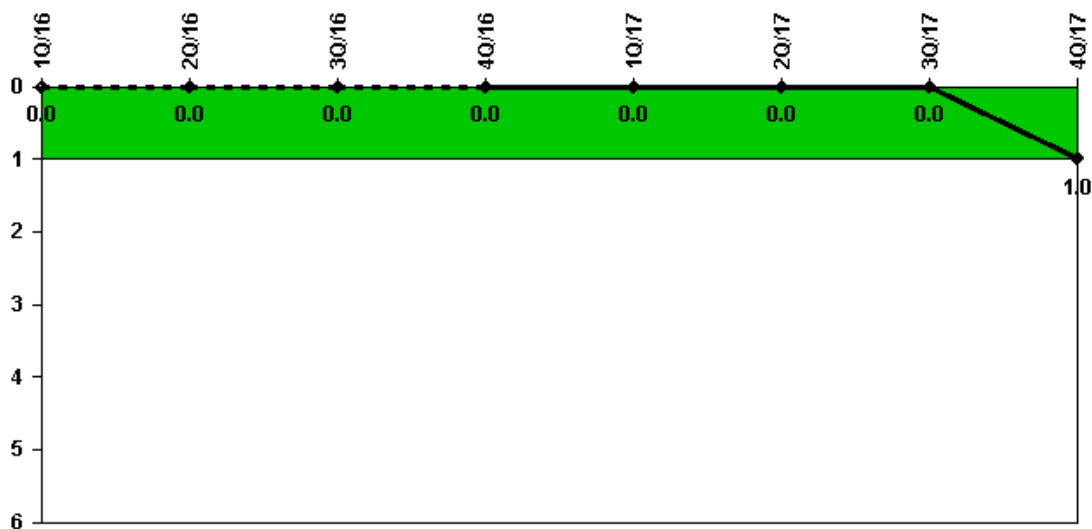
Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2183.0	1937.9	2208.0	2209.0	2159.0	1600.1	2208.0	2084.1

Indicator value	0	0	0	0	0	0	0.9	0.9
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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

Notes

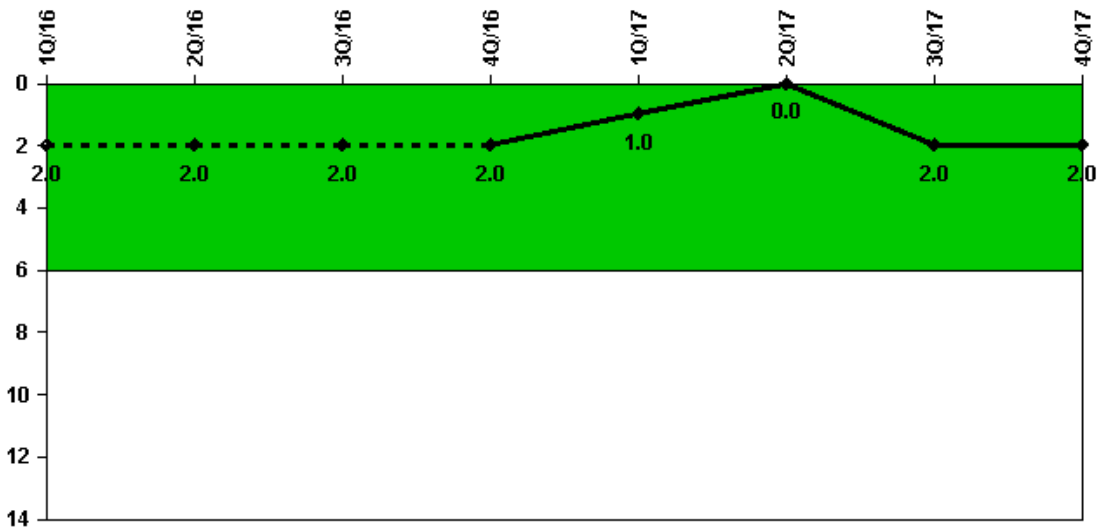
Unplanned Scrams with Complications	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Scrams with complications	0	0	0	0	0	0	0	1.0

Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR) 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

Safety System Functional Failures 1 1 0 0 0 0 2 0

Indicator value 2 2 2 2 1 0 2 2

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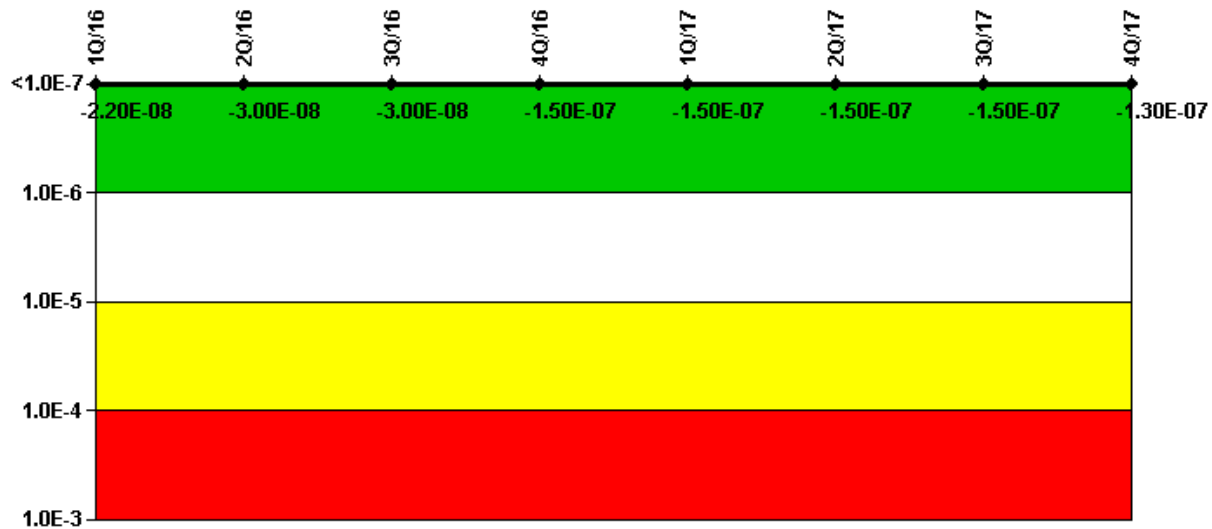
Licensee Comments:

3Q/17: LERs 2017-002-01 and 2017-008 were reported during 3Q17 that identified a Safety System Functional Failure.

2Q/16: Safety System Functional Failure reported to NRC under LER 2016-003 issued on 05/23/16 for Bypassing Both Divisions of Reactor Water Cleanup Leak Detection System is a Reportable Loss of Safety Function.

1Q/16: Safety System Functional Failure reported to NRC under LER 2016-001-00 issued 03/18/2016 for Continuous Containment Purge Exhaust Fan trip due to unvalidated assumptions in work planning resulted in an unanalyzed condition of Primary to Secondary Containment differential pressure and safety system functional failure.

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

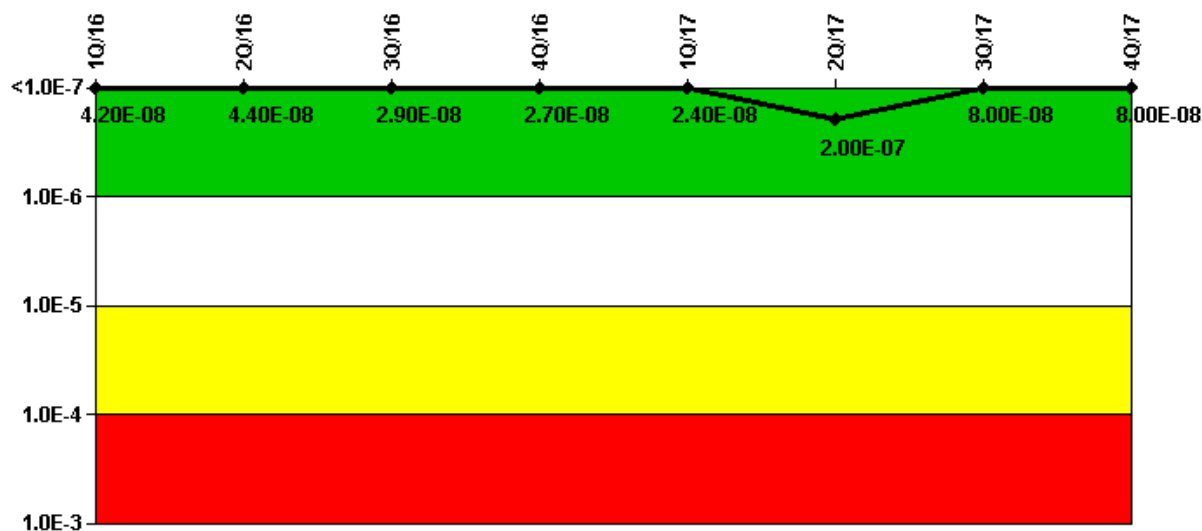
Mitigating Systems Performance Index, Emergency AC Power System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-1.00E-08	-1.82E-08	-1.82E-08	-2.19E-08	-2.19E-08	-2.18E-08	-2.18E-08	-3.17E-09
URI (ΔCDF)	-1.21E-08	-1.21E-08	-1.21E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-3.00E-08	-3.00E-08	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.30E-07

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Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

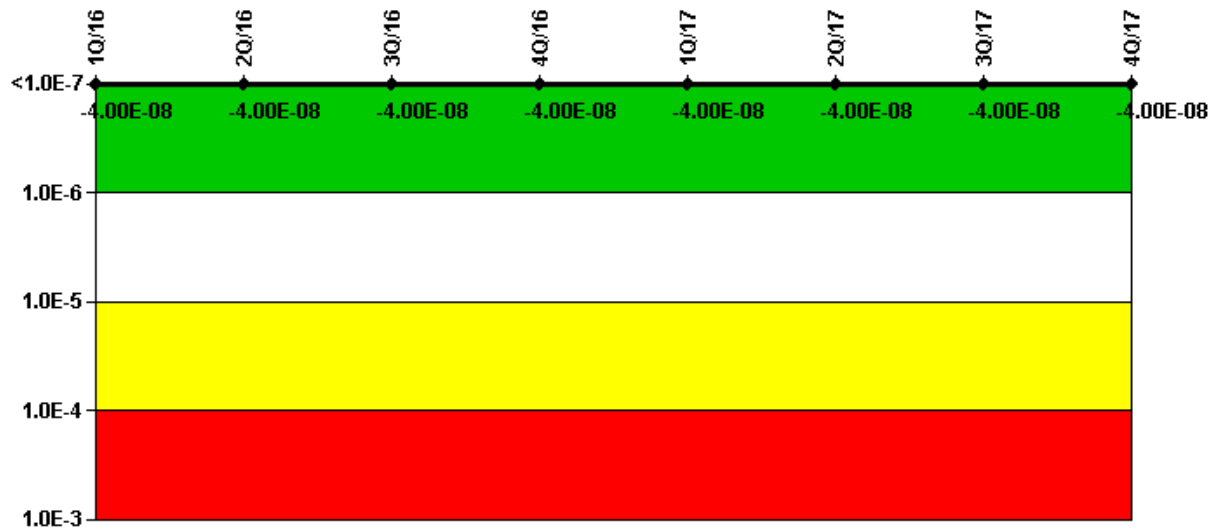
Mitigating Systems Performance Index, High Pressure Injection System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	3.16E-08	3.29E-08	1.82E-08	1.66E-08	1.31E-08	6.88E-08	3.25E-08	3.28E-08
URI (Δ CDF)	1.09E-08	1.09E-08	1.09E-08	1.09E-08	1.09E-08	1.36E-07	4.75E-08	4.75E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.20E-08	4.40E-08	2.90E-08	2.70E-08	2.40E-08	2.00E-07	8.00E-08	8.00E-08

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Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

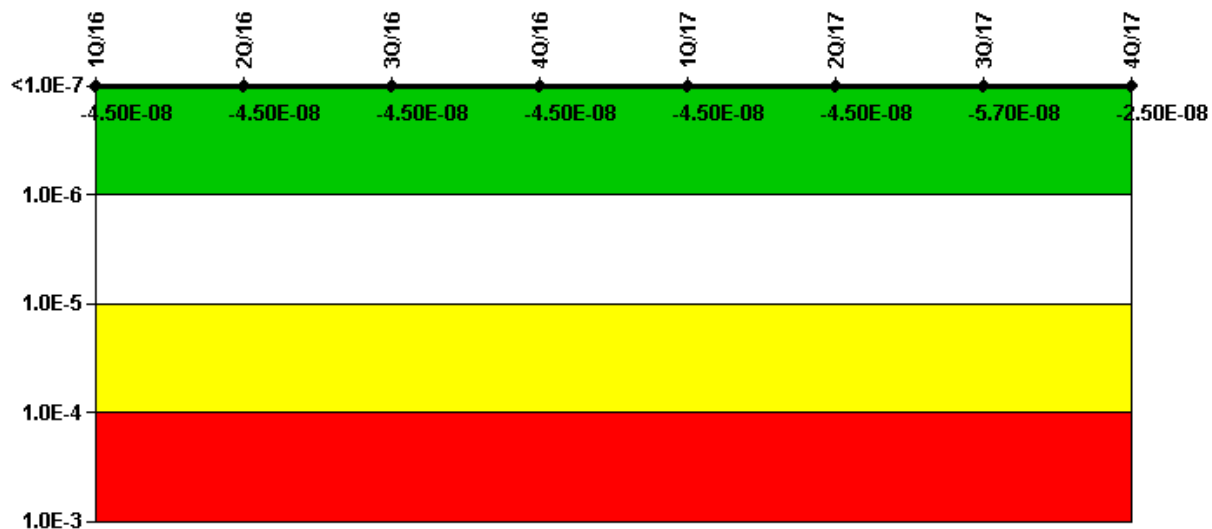
Mitigating Systems Performance Index, Heat Removal System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08
URI (ΔCDF)	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08	-2.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08

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Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

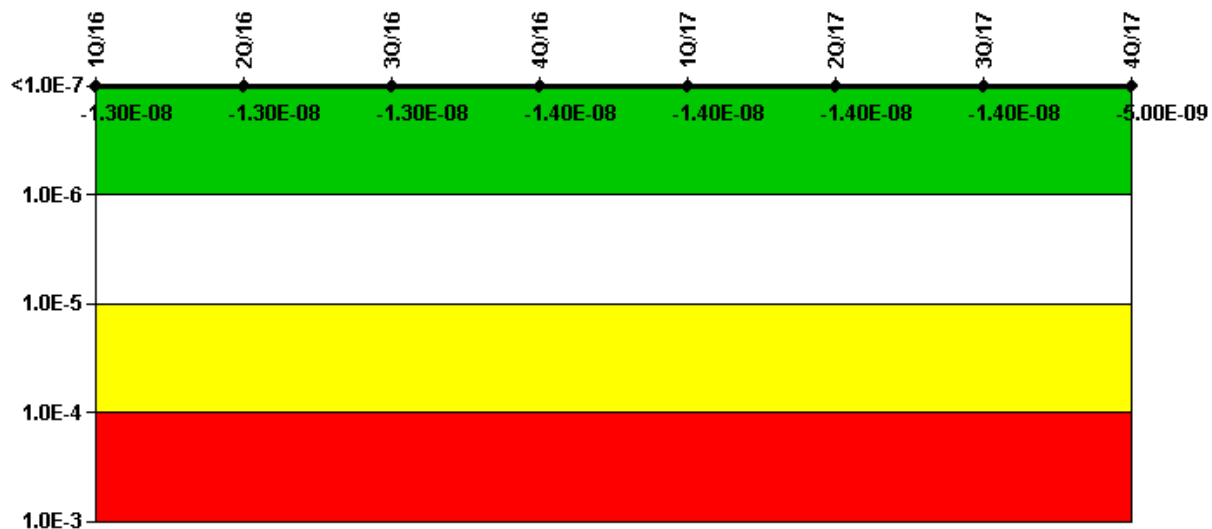
Mitigating Systems Performance Index, Residual Heat Removal System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-5.85E-09	-5.74E-09	-5.74E-09	-6.04E-09	-6.09E-09	-5.82E-09	-1.76E-08	1.39E-08
URI (Δ CDF)	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08	-3.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.50E-08	-4.50E-08	-4.50E-08	-4.50E-08	-4.50E-08	-4.50E-08	-5.70E-08	-2.50E-08

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Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

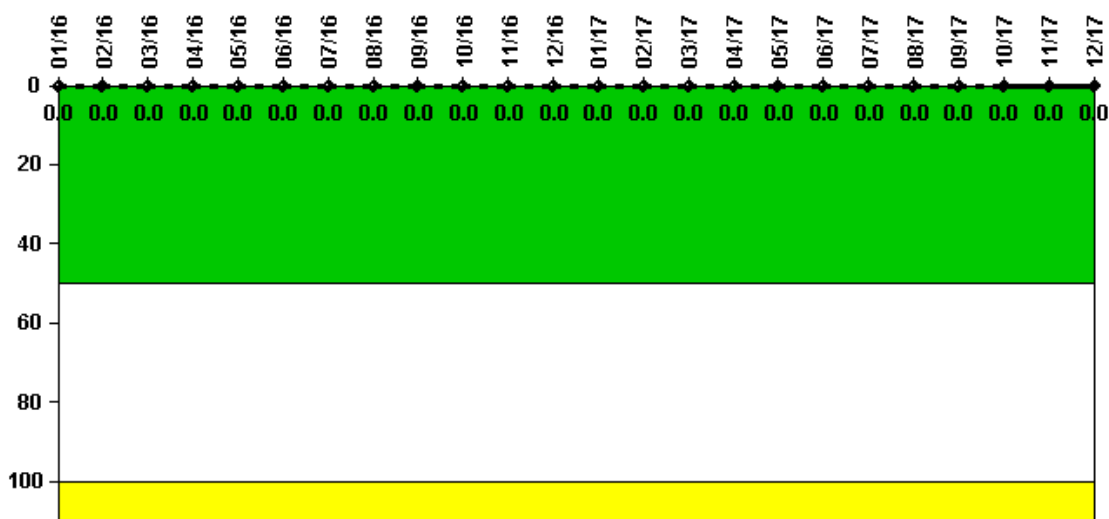
Mitigating Systems Performance Index, Cooling Water Systems

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	4.52E-09	4.62E-09	4.62E-09	3.54E-09	3.37E-09	4.34E-09	4.34E-09	1.28E-08
URI (ΔCDF)	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08	-1.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.30E-08	-1.30E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-5.00E-09

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Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

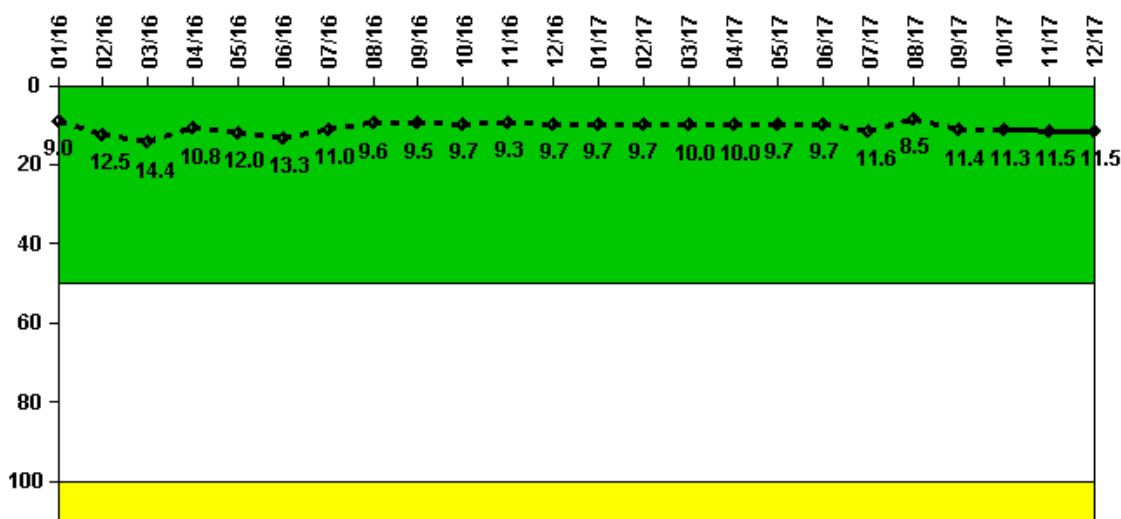
Notes

Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000003	0.000003	0.000003	0.000003	0.000003
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum activity	0.000003	0.000003	0.000003	0.000003	0.000003	0.000002	0.000003	0.000003	0.000004	0.000004	0.000003	0.000003
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

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Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	2.700	3.740	4.330	3.230	3.590	3.990	3.310	2.870	2.860	2.910	2.800	2.900
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0

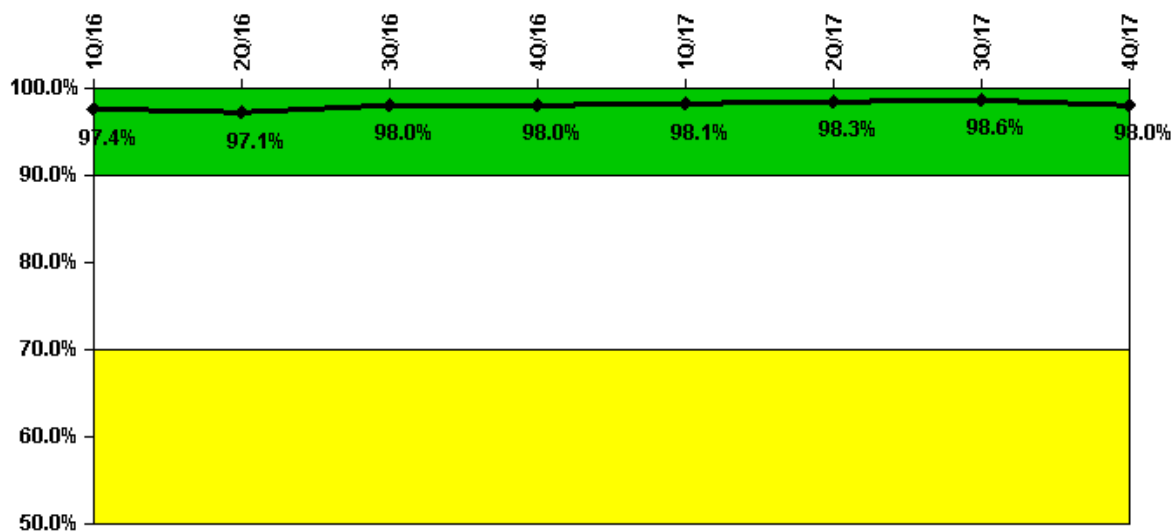
Indicator value	9.0	12.5	14.4	10.8	12.0	13.3	11.0	9.6	9.5	9.7	9.3	9.7
Reactor Coolant System Leakage	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum leakage	2.900	2.900	2.990	3.000	2.900	2.910	3.470	2.540	3.420	3.390	3.440	3.440
Technical specification limit	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0

Indicator value	9.7	9.7	10.0	10.0	9.7	9.7	11.6	8.5	11.4	11.3	11.5	11.5
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

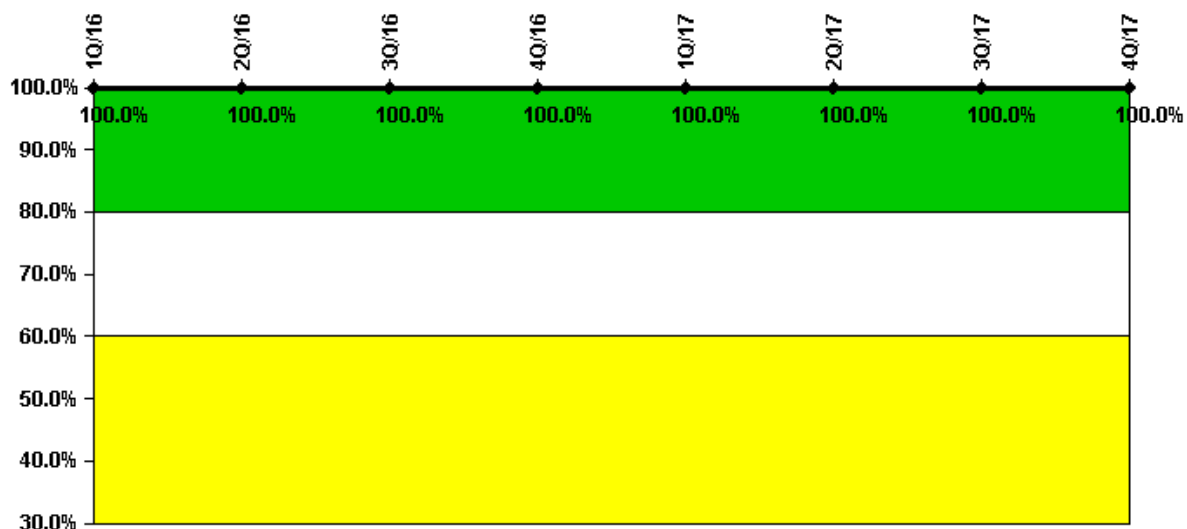
Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	84.0	63.0	22.0	30.0	52.0	34.0	84.0	24.0
Total opportunities	85.0	65.0	24.0	30.0	52.0	34.0	85.0	26.0

Indicator value **97.4% 97.1% 98.0% 98.0% 98.1% 98.3% 98.6% 98.0%**

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Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

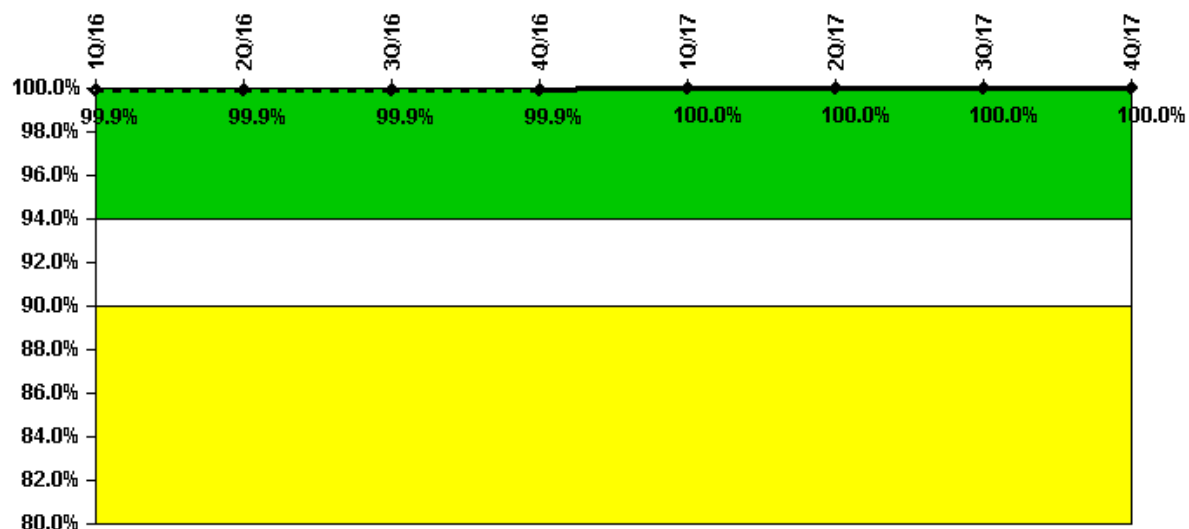
ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	67.0	68.0	64.0	61.0	64.0	65.0	67.0	63.0
Total Key personnel	67.0	68.0	64.0	61.0	64.0	65.0	67.0	63.0

Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

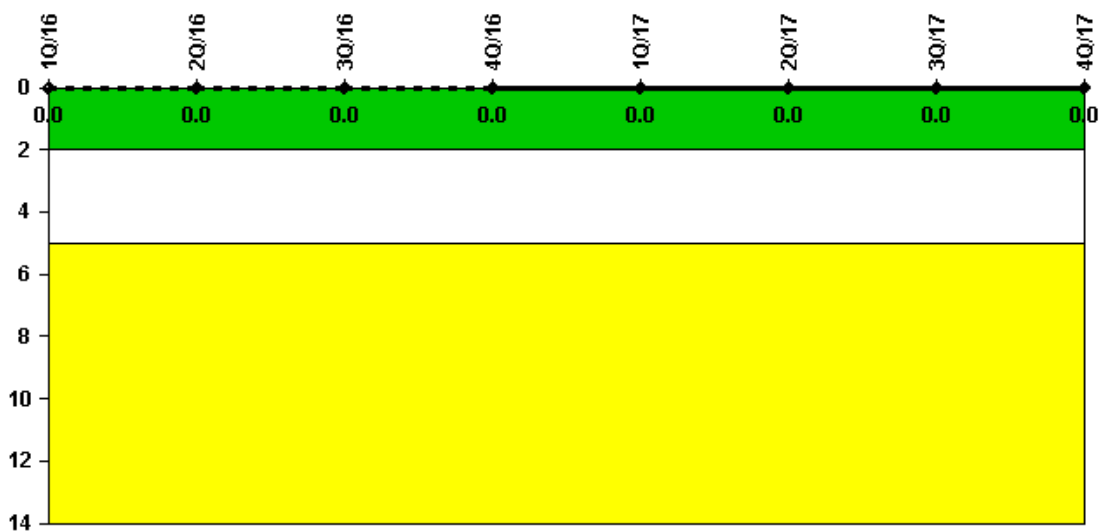
Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	2559	2558	2558	2479	2600	2559	2519	2519
Total sirens-tests	2560	2560	2560	2480	2600	2560	2520	2520

Indicator value **99.9%** **99.9%** **99.9%** **99.9%** **100.0%** **100.0%** **100.0%** **100.0%**

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

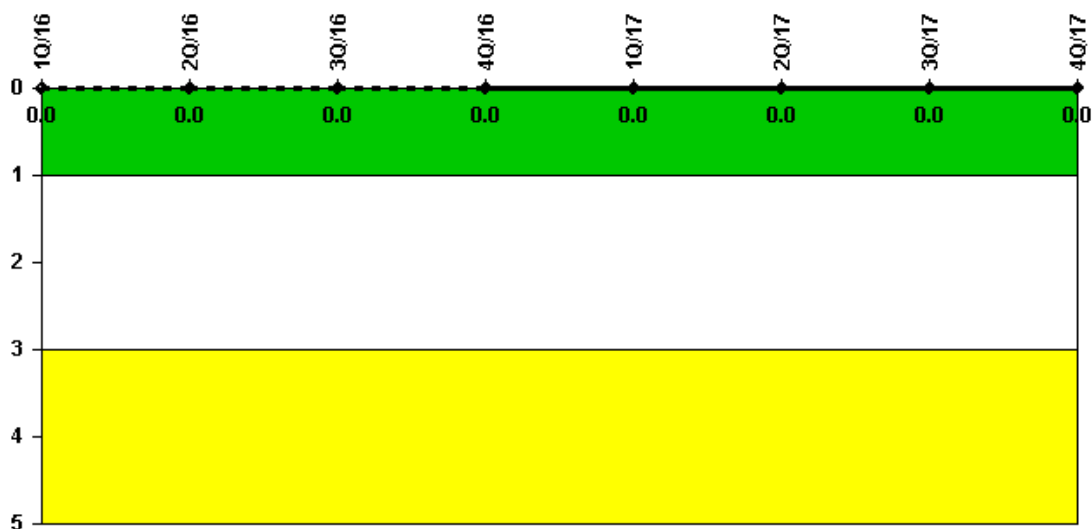
Occupational Exposure Control Effectiveness 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: February 1, 2018

Page Last Reviewed/Updated Monday, November 06, 2017